What is claimed is:

1: A method comprising:

detecting that a first virtual machine is attempting to transmit data to a second virtual machine;

mapping a transmitting memory element of the first virtual machine to a shared physical memory element; and

mapping a receiving memory element of the second virtual machine to the shared physical memory element.

2: The method of claim 1, further including:

detecting that the first virtual machine has placed data in the shared physical memory element; and

informing the second virtual machine that data is available in the shared physical memory element.

3: The method of claim 1, further comprising:

detecting if the first virtual machine is attempting to transmit data to a non-virtual machine;

dynamically remapping the transmitting memory element of the first virtual machine to a physical device associated with the transmitting memory element.

4: The method of claim 3, wherein the transmitting buffer of the first virtual machine is part of a first virtual device; and

the receiving buffer of the second virtual machine is part of a second virtual device.

5: The method of claim 4, wherein first virtual device and the second virtual device are devices selected from a group including:

an Ethernet device,

a network interface,

an audio device,

a storage device, and

a video device.

6: The method of claim 4, wherein the shared physical memory element is a direct memory access (DMA) buffer.

7: The method of claim 1, wherein detecting that a first virtual machine is attempting to transmit data to a second virtual machine includes:

monitoring the first virtual machine;

comparing the destination of any data transmitted by the first virtual machine to an address associated with the second virtual machine.

8: The method of claim 1, wherein detecting that a first virtual machine is attempting to transmit data to a second virtual machine includes:

reading a mapping configuration data that specifies default virtual device to physical device mappings;

comparing the mapping configuration data for the first virtual machine to the mapping configuration data of the second virtual machine;

assuming that the first virtual machine is attempting to transmit data to the second virtual machine, if a transmitting virtual device of the first machine is mapped to the same physical device as the receiving virtual device of the second virtual machine.

9: The method of claim 7, wherein mapping a transmitting memory element of the first virtual machine to a shared physical memory element includes:

determining if the transmitting memory element is currently mapped to a transmitting memory element of a physical device;

if so, unmapping of the transmitting memory element from the transmitting memory element of the physical device; and

remapping the transmitting memory element of the first virtual machine to the shared physical memory element.

10: The method of claim 9, further including:

detecting that the second virtual machine is attempting to transmit data to the first virtual machine;

mapping a transmitting memory element of the second virtual machine to the shared physical memory element; and

mapping a receiving memory element of the first virtual machine to the shared physical memory element.

11: An article comprising:

a machine accessible medium having a plurality of machine accessible instructions, wherein when the instructions are executed, the instructions provide for:

detecting that a first virtual machine is attempting to transmit data to a second virtual machine;

mapping a transmitting memory element of the first virtual machine to a shared physical memory element; and

mapping a receiving memory element of the second virtual machine to the shared physical memory element.

12: The article of claim 11, further including instructions providing for:

detecting that the first virtual machine has placed data in the shared physical memory element; and

informing the second virtual machine that data is available in the shared physical memory element.

13: The article of claim 11, further comprising instructions providing for:

detecting if the first virtual machine is attempting to transmit data to a non-virtual machine:

dynamically remapping the transmitting memory element of the first virtual machine to a physical device associated with the transmitting memory element.

14: The article of claim 13, wherein the transmitting buffer of the first virtual machine is part of a first virtual device; and

the receiving buffer of the second virtual machine is part of a second virtual device.

15: The article of claim 14, wherein first virtual device and the second virtual device are devices selected from a group including:

an Ethernet device,

a network interface,

an audio device,

a storage device, and

a video device.

16: The article of claim 14, wherein the shared physical memory element is a direct memory access (DMA) buffer.

17: The article of claim 11, wherein the instructions provide for detecting that a first virtual machine is attempting to transmit data to a second virtual machine includes instructions providing for:

monitoring the first virtual machine;

comparing the destination of any data transmitted by the first virtual machine to an address associated with the second virtual machine.

18: The article of claim 11, wherein the instructions provide for detecting that a first virtual machine is attempting to transmit data to a second virtual machine includes instructions providing for:

reading a mapping configuration data that specifies default virtual device to physical device mappings;

comparing the mapping configuration data for the first virtual machine to the mapping configuration data of the second virtual machine;

assuming that the first virtual machine is attempting to transmit data to the second virtual machine, if a transmitting virtual device of the first machine is mapped to the same physical device as the receiving virtual device of the second virtual machine.

19: The article of claim 17, wherein the instructions provide for mapping a transmitting memory element of the first virtual machine to a shared physical memory element includes instructions providing for:

determining if the transmitting memory element is currently mapped to a transmitting memory element of a physical device;

if so, unmapping of the transmitting memory element from the transmitting memory element of the physical device; and

remapping the transmitting memory element of the first virtual machine to the shared physical memory element.

20: The article of claim 19, further including instructions providing for:

detecting that the second virtual machine is attempting to transmit data to the first virtual machine;

mapping a transmitting memory element of the second virtual machine to the shared physical memory element; and

mapping a receiving memory element of the first virtual machine to the shared physical memory element.

21: A virtual machine manager comprising:

a cross-talk detector to detect if a first virtual machine is attempting to transmit

data to a second virtual machine; and

a dynamic memory remapper to, if instructed by the cross-talk detector, map a first virtual memory of the first virtual machine to a second virtual memory of the second virtual machine via a shared physical memory element.

22: The virtual machine manager of claim 21, wherein the dynamic memory remapper is capable of:

mapping a transmitting memory element of the first virtual machine to a shared physical memory element; and

mapping a receiving memory element of the second virtual machine to the shared physical memory element.

23: The virtual machine manager of claim 22, wherein the cross-talk detector is further capable of:

detecting that the first virtual machine has placed data in the shared physical memory element; and

informing the second virtual machine that data is available in the shared physical memory element.

24: The virtual machine manager of claim 22, wherein the cross-talk detector is further capable of detecting if the first virtual machine is attempting to transmit data to a non-

virtual machine; and

the dynamic memory remapper is further capable of dynamically remapping the transmitting memory element of the first virtual machine to a physical device associated with the transmitting memory element.

25: The virtual machine manager of claim 24, wherein the cross-talk detector is further capable of monitoring the first and second memories wherein the memories are part of virtual devices selected from a group including:

an Ethernet device,

a network interface,

an audio device,

a storage device, and

a video device.

26: The virtual machine manager of claim 25, wherein the shared physical memory element is a direct memory access (DMA) buffer.

27: The virtual machine manager of claim 26, wherein the cross-talk detector is capable of:

monitoring the first virtual machine;

comparing the destination of any data transmitted by the first virtual machine to an address associated with the second virtual machine.

28: The virtual machine manager of claim 22, wherein the dynamic memory remapper is capable of:

determining if the transmitting memory element is currently mapped to a transmitting memory element of a physical device;

if so, unmapping of the transmitting memory element from the transmitting memory element of the physical device; and

remapping the transmitting memory element of the first virtual machine to the shared physical memory element.

29: The virtual machine manager of claim 28, wherein the cross-talk detector is capable of detecting that the second virtual machine is attempting to transmit data to the first virtual machine; and

wherein the dynamic memory remapper is capable of mapping a transmitting memory element of the second virtual machine to the shared physical memory element; and

mapping a receiving memory element of the first virtual machine to the shared physical memory element..

30: The virtual machine manager of claim 21, wherein the first virtual memory element of the first virtual machine to a second virtual memory element of the second virtual machine are not identical but share substantially similar characteristics.

31: A system comprising:

a first virtual machine, having a first virtual device that includes a first virtual memory element;

a second virtual machine, having a second virtual device that includes a second virtual memory element;

a shared physical memory element; and

a virtual machine manager, having

a cross-talk detector to detect if a first virtual machine is attempting to transmit data to a second virtual machine; and

a dynamic memory remapper to, if instructed by the cross-talk detector, map a first virtual memory element of the first virtual machine to a second virtual memory element of the second virtual machine via a shared physical memory element.

32: The system of claim 31, wherein the dynamic memory remapper is capable of:

mapping a transmitting memory element of the first virtual machine to a shared physical memory element; and

mapping a receiving memory element of the second virtual machine to the shared physical memory element.

33: The system of claim 32, wherein the cross-talk detector is further capable of:

detecting that the first virtual machine has placed data in the shared physical memory element; and

informing the second virtual machine that data is available in the shared physical memory element.

34: The system of claim 32, wherein the cross-talk detector is further capable of detecting if the first virtual machine is attempting to transmit data to a non-virtual machine; and

the dynamic memory remapper is further capable of dynamically remapping the transmitting memory element of the first virtual machine to a physical device associated with the transmitting memory element.

35: The system of claim 34, wherein the cross-talk detector is further capable of monitoring the first and second memories wherein the memories are part of virtual devices selected from a group including:

an Ethernet device,

a network interface,

an audio device,

a storage device, and

a video device.

36: The system of claim 35, wherein the shared physical memory element is a direct memory access (DMA) buffer.

37: The system of claim 36, wherein the cross-talk detector is capable of:

monitoring the first virtual machine;

comparing the destination of any data transmitted by the first virtual machine to an address associated with the second virtual machine.

38: The system of claim 32, wherein the dynamic memory remapper is capable of:

determining if the transmitting memory element is currently mapped to a transmitting memory element of a physical device;

if so, unmapping of the transmitting memory element from the transmitting memory element of the physical device; and

remapping the transmitting memory element of the first virtual machine to the shared physical memory element.

39: The system of claim 38, wherein the cross-talk detector is capable of detecting that the second virtual machine is attempting to transmit data to the first virtual machine; and wherein the dynamic memory remapper is capable of mapping a transmitting memory element of the second virtual machine to the shared physical memory element; and

mapping a receiving memory element of the first virtual machine to the shared physical memory element.

40: The system of claim 31, wherein the first virtual memory element of the first virtual machine to a second virtual memory element of the second virtual machine are not identical but share substantially similar characteristics.

41: A method of communicating between two virtual machines utilizing a virtual machine manger comprising:

detecting that a first virtual machine, having a first virtual network interface, is attempting to transmit data to a second virtual machine, second virtual network interface, via the virtual network interfaces;

mapping a transmitting memory element of the first virtual network interface to a direct memory access buffer; and

mapping a receiving memory element of the second virtual network interface to the direct memory access buffer.

42: The method of claim 41, further including:

detecting that the first virtual machine has placed data in the direct memory access buffer; and

informing the second virtual machine that data is available in the direct memory access buffer.

43: The method of claim 41, further comprising the first virtual machine:

placing at least one packet into the direct memory access buffer; and

moving the tail register of the first virtual network interface to indicate how many packets where written to the direct memory access buffer.

44: The method of claim 43, further comprising the virtual machine manager:

moving the receive descriptor head register of the second network interface by the number of packets written to the direct memory access buffer;

updating the status of the second network interface to indicate that a packet has been received;

sending a receive interrupt to the second virtual machine.

45: The method of claim 44, further comprising the second virtual machine:

reading the data from the direct memory access buffer.

46: The method of claim 45, further comprising, the virtual machine manager:

detecting that the second virtual machine has read the data from the direct memory buffer;

updating the status of the first network interface to indicate that the data has been received; and

injecting a transmit complete interrupt to the first virtual machine.

47: The method of claim 41, wherein detecting that a first virtual machine is attempting to transmit data to a second virtual machine includes:

monitoring the first virtual machine;

comparing the destination of any data transmitted by the first virtual machine to an address associated with the second virtual machine.

48: A method comprising:

detecting that a first virtual machine is configured to transmit data to a second virtual machine;

statically mapping a transmitting memory element of the first virtual machine to a shared physical memory element; and

statically mapping a receiving memory element of the second virtual machine to the shared physical memory element.

49: The method of claim 48, further comprising:

statically mapping a receiving memory element of the first virtual machine to a second shared physical memory element; and

statically mapping a transmitting memory element of the second virtual machine to the second shared physical memory element.

50: The method of claim 48, wherein detecting that a first virtual machine is configured to transmit data to a second virtual machine is done when the first virtual machine is started.

51: The method of claim 50, wherein detecting that a first virtual machine is configured to transmit data to a second virtual machine includes reading a configuration file that explicitly denotes that the first and second virtual machines are virtually coupled.

52: The method of claim 50, wherein detecting that a first virtual machine is configured to transmit data to a second virtual machine includes reading a configuration file that implicitly denotes that the first and second virtual machines are virtually coupled.

53: The method of claim 50, wherein the shared physical memory element comprises a direct access memory buffer.

54: The method of claim 53, wherein the virtual memory elements of the first and second virtual machines are part of virtual devices selected from a group of virtual devices comprising:

an Ethernet device;

a network device;

an audio device; a storage device; and

a video device.

55: An article comprising:

a machine accessible medium having a plurality of machine accessible instructions, wherein when the instructions are executed, the instructions provide for:

detecting that a first virtual machine is configured to transmit data to a second virtual machine;

statically mapping a transmitting memory element of the first virtual machine to a shared physical memory element; and

statically mapping a receiving memory element of the second virtual machine to the shared physical memory element.

56: The article of claim 55, further comprising instructions providing for:

statically mapping a receiving memory element of the first virtual machine to a second shared physical memory element; and

statically mapping a transmitting memory element of the second virtual machine to the second shared physical memory element.

57: The article of claim 55, wherein the instructions providing for detecting that a first virtual machine is configured to transmit data to a second virtual machine are executed when the first virtual machine is started.

58: The article of claim 57, wherein the instructions providing for detecting that a first virtual machine is configured to transmit data to a second virtual machine includes instructions providing for reading a configuration file that explicitly denotes that the first and second virtual machines are virtually coupled.

59: The article of claim 57, wherein the instructions providing for detecting that a first virtual machine is configured to transmit data to a second virtual machine includes instructions providing for reading a configuration file that implicitly denotes that the first and second virtual machines are virtually coupled.

60: The article of claim 57, wherein the instructions provide for the shared physical memory element comprising a direct access memory buffer.

61: The article of claim 60, wherein the virtual memory elements of the first and second virtual machines are part of virtual devices selected from a group of virtual devices comprising:

an Ethernet device;

a network device;

an audio device; a storage device; and

a video device.